Gestion de Projet et Génie Logiciel Introduction du cours Master 1, Lyon 1

Matthieu Moy

UCBL

2020-2021

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Objectives

- Software engineering (Génie Logiciel): the art of making "good" software, at
- Project management: what's left, other than development? (need analysis & specification, team management, ...)
- Approach:

 - Good practices: tests, design patterns, ...
 Tooling: continuous integration, version control, unit testing, ...
 Organization: project lifecycle, agile methods
 Speakers from several external companies
- \bullet Many notions usable directly \Rightarrow apply in your school project, your company (apprentices), ...



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Practical Aspects

- $\bullet \ \, \textbf{Course material:} \ \, \texttt{https://forge.univ-lyon1.fr/matthieu.moy/mif01-2020} \\$
 - In your web browser
 - ▶ git clone https://forge.univ-lyon1.fr/matthieu.moy/mif01-2020 once, git pull periodically.

 ► Slides, exercises, labs, examples of code
- Evaluation:
 - ► Final exam

 - Mini-project: deadline = Sunday, Sept 22nd 2019, 23:59 (TOMUSS)
 Teams of 2 students (exceptionally, team of 1 is possible, without bonus)
- Schedule: see ADE (link on home page above)



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Software Engineering

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Assumed to be Previously Learnt

Object-Oriented Programming basics:

http:

//tabard.fr/courses/2015/mif17/2015/MIF17_Rappel_objet.pdf

- UML Modeling basics:
 - ► Class diagrams (classes, object, package, etc.):

http://tabard.fr/courses/2015/mif17/2015/UML-Statique.pdf
Dynamic diagrams (sequence, state-machine):

http://tabard.fr/courses/2015/mif17/2015/UML-Dynamique.pdf



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Outline

- Generalities (today, tomorrow)
- Tools for code management
- Design-patterns
- Specifications
- Agile methods
- Tests Ethics
- Project management

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Distribution

- 10×1h30 Lecture (CM)
- 2×1h30 Tutorial (TD)
- 8×1h30 Labs (TP)

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